

Dr. mikael monier summary of lec 1 Heat

$$H = \frac{Q}{t}$$

$$= -KA \left(\frac{dT}{dx} \right) \text{ Temperature Gradient}$$



$$H = \frac{T_1 - T}{R_1}$$

$$T_1 - T = HR_1$$

$$H = \frac{T - T_2}{R_2}$$

$$T - T_2 = HR_2$$

$$H = \frac{T_1 - T_2}{R_1 + R_2} = \frac{T_1 - T_2}{R}$$

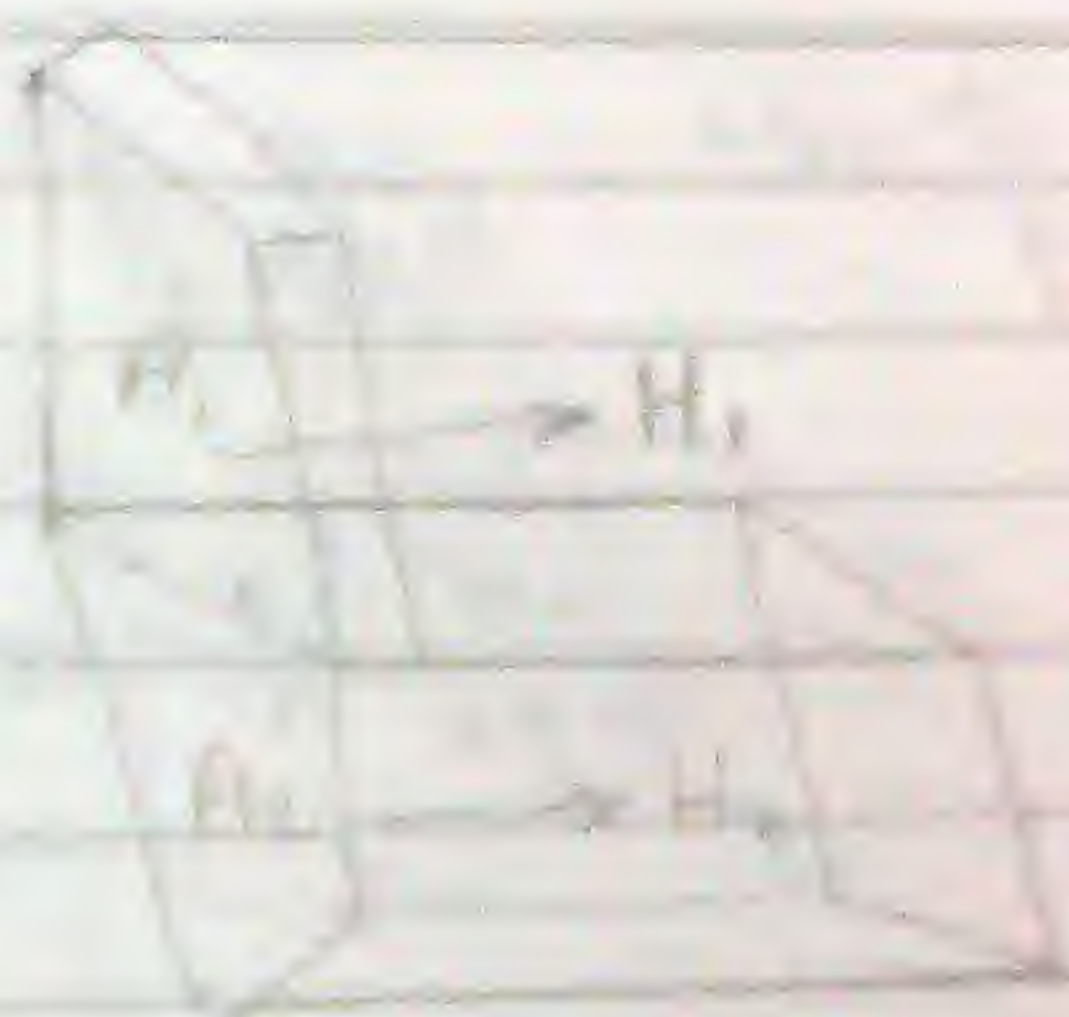
$$T = \frac{T_1 R_2 + T_2 R_1}{R_1 + R_2}$$

Plate or bar



$$H = \frac{T_1 - T_2}{R}$$

$$R = \frac{L}{KA}$$



$$H_1 = \frac{T_1 - T_2}{R_1}$$

$$H_2 = \frac{T_1 - T_2}{R_2}$$